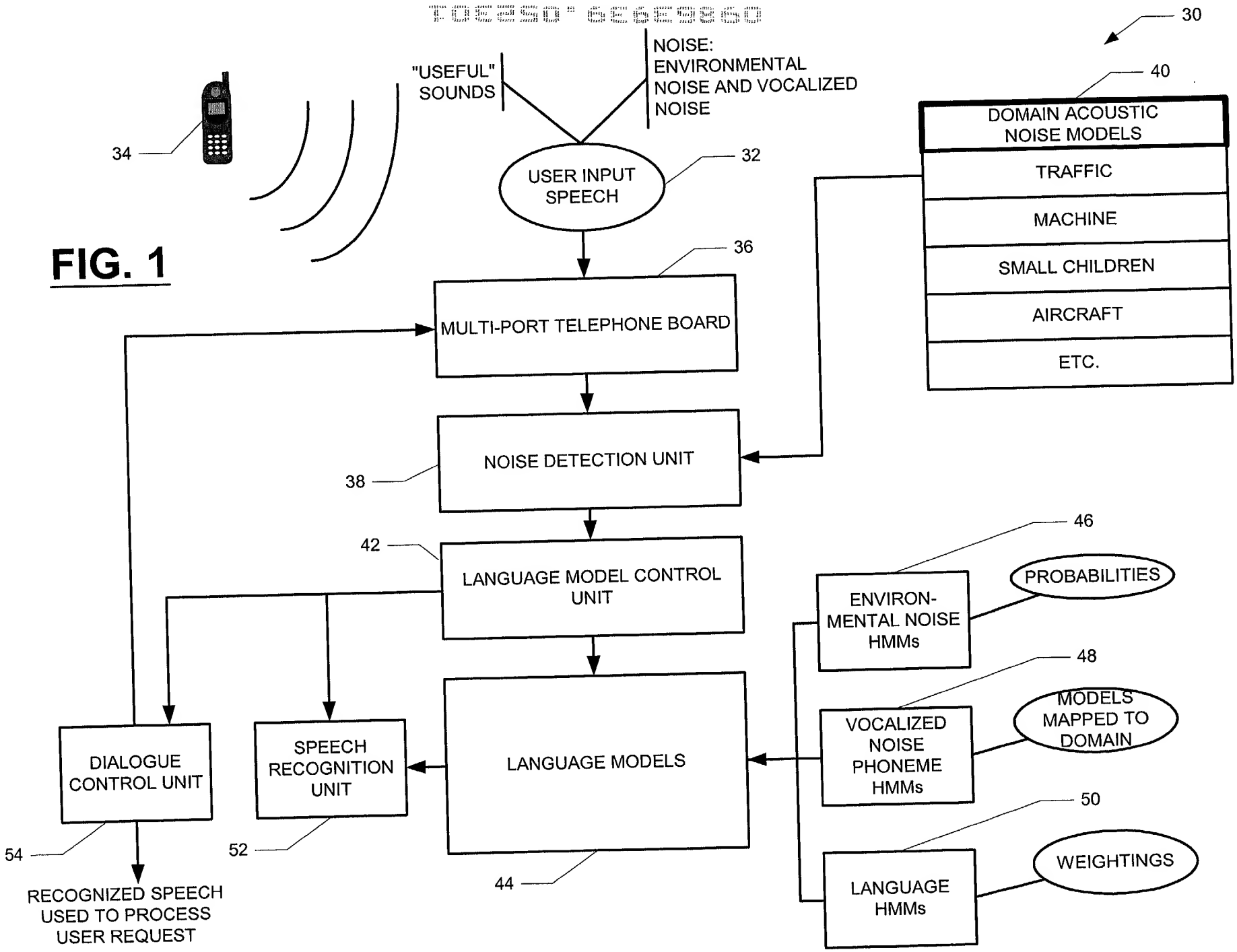
30
40
DOMAIN ACOUSTIC NOISE MODELS
TRAFFIC
MACHINE
SMALL CHILDREN
AIRCRAFT
ETC.
"USEFUL" SOUNDS
NOISE: ENVIRONMENTAL NOISE AND VOCALIZED NOISE
34
USER INPUT SPEECH
32
36
MULTI-PORT TELEPHONE BOARD
NOISE DETECTION UNIT
38
42
LANGUAGE MODEL CONTROL UNIT
46
ENVIRON-MENTAL NOISE HMMs
PROBABILITIES
48
VOCALIZED NOISE PHONEME HMMs
MODELS MAPPED TO DOMAIN
50
LANGUAGE HMMs
WEIGHTINGS
LANGUAGE MODELS
44
DIALOGUE CONTROL UNIT
54
SPEECH RECOGNITION UNIT
52
RECOGNIZED SPEECH USED TO PROCESS USER REQUEST

FIG. 1